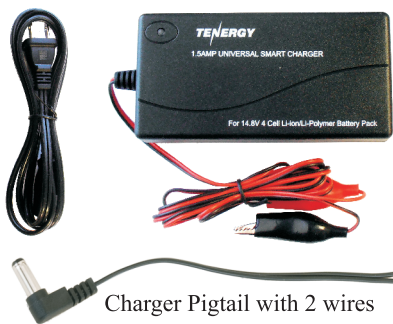


Attaching Charger Plug Pigtail To Charger



Charger Pigtail with 2 wires

First, open up the charger box. Your charger case color may be different. Set the line cord aside for now.

There are two possible versions of the charger pigtail that came with your AirWire Plug-In decoder. One type is just two wires stripped and tinned on one end. The other type resembles shielded audio cable containing a center conductor with a shield wire wrapped around the center conductor.



Charger Pigtail with audio cable

The pigtail needs to be permanently attached to the charger output wires. This is not difficult and no special tools are needed.

Wire polarity is very important and reversing the polarity could damage the charger or the battery or both. On the pigtail with two wires, the plus wire is the wire with the white stripe. The minus wire is the solid black wire. On the audio cable version, the center conductor is plus and the shield is ground. On the charger, it uses the conventional red wire for plus and black for the minus wire.

For the 2 wire pigtail, separate the 2 wires for about 2 inches. Cut the plus wire so it is 1 inch shorter than the minus wire. Remove about 1/2 inch of the insulation from the minus wire. Twist the strands together and touch a tiny bit of solder to the twisted wire. This is called tinning and keeps the twisted wires from unraveling.

For the audio pigtail, strip the outer insulation back about 2 inches. Separate the shield from the center conductor. Twist the shield strands together and apply solder to the twisted strands. Use heatshrink tubing to cover all but 1/2 inch of the tinned wire. Cut the center conductor - plus wire so it is 1 inch shorter than the shield. Strip the center conductor back about 1/2 inch and tin the ends to keep them from unraveling.

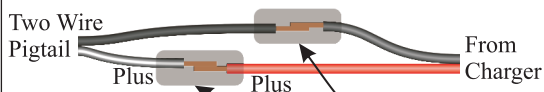
Take the charger wires and split the red and black wires apart for about 3 inches. Cut the minus wire so it is shorter than the plus wire. Remove about 1/2 inch of the insulation from both the black and red ends of the wires. Twist and tin the wires.

If you are using heatshrink tubing to insulate the solder joints, now is the time to slide a piece over the minus wire - either side will work. Otherwise, use electrical tape to insulate each connection. Overlap or twist together the two minus wires and solder them together. Once the solder joint has cooled, slide the heatshrink over the connection and heat it up to shrink the tubing around the connection. Make sure no wire is visible.

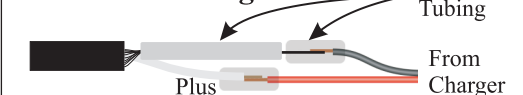
Slide a piece of heatshrink over the plus wire. Overlap or twist together the two plus wires and solder them together. Once the solder joint has cooled, slide the heatshrink over the connection and heat it up to shrink the tubing around the connection. Make sure no wire is visible.

Inspect for proper polarity matching and that no bare wire is visible outside the heatshrink tubing. This completes the wiring.

Two-Wire Pigtail



Shielded-Wire Pigtail



Heatshrink tubing may be ordered from Mouser Electronics. Order part number 5174-1141. Its about \$2 for a 4 foot length. www.mouser.com